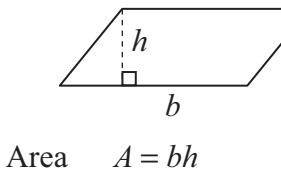


# Formula Sheet

**Note to Student:** You may use these formulas throughout this entire test. Feel free to use this Formula Sheet as needed during your testing time.

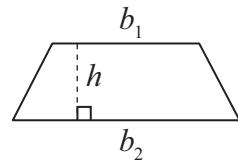
## Parallelogram



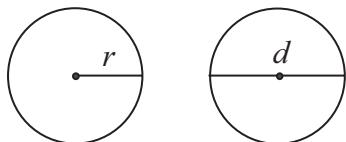
Area  $A = bh$

## Trapezoid

Area  $A = \frac{1}{2}h(b_1 + b_2)$



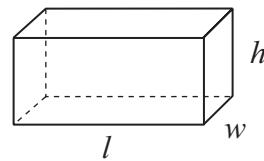
## Circle



Circumference  $C = 2\pi r$   
 $C = \pi d$

Area  $A = \pi r^2$

## Rectangular Solid

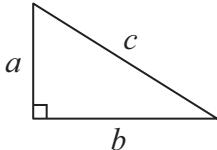


Volume  $V = lwh$

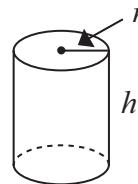
Surface Area  $SA = 2lw + 2lh + 2hw$

## Pythagorean Theorem

$$a^2 + b^2 = c^2$$



## Cylinder

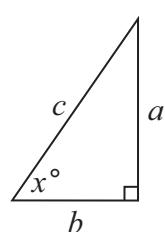


Volume  $V = \pi r^2 h$

Volume  $V = \frac{1}{3} \pi r^2 h$

## Trigonometric Ratios

$$\sin x = \frac{a}{c}$$



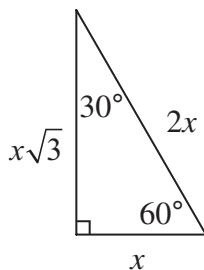
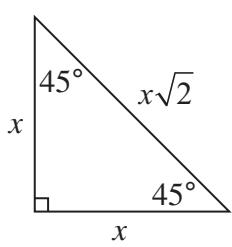
$$\cos x = \frac{b}{c}$$

$$\tan x = \frac{a}{b}$$

## Permutations

$${}_n P_k = \frac{n!}{(n-k)!}$$

## Special Right Triangles



## Combinations

$${}_n C_k = \frac{n!}{k!(n-k)!}$$

## Temperature Formulas

$${}^{\circ}\text{F} = \frac{9}{5} \text{C} + 32$$

$${}^{\circ}\text{C} = \frac{5}{9}(\text{F} - 32)$$